

Model			
Designation	HTK70AA	220-240V/50Hz 1~	Sales code: 16125300

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	6,6cm³ / 0,4cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1500cm³ / 50,7fl.oz		
Weight	7,9kg / 17,4lbs		
Motor protection	external		
Winding resistance main	34Ω (at 25°C)		
Winding resistance aux	15,5Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HTK70AA

	Conf. 1	Conf. 2
Motorconfiguration	RSIR	RSCR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	187-264V	187-264V
Approvals	VDE	VDE
Starting torque	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.	

Applications with HTK70AA

	Conf. 1	Conf. 2
Refrigerant	R600a	R600a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

Electrical data - Configurations with HTK70AA

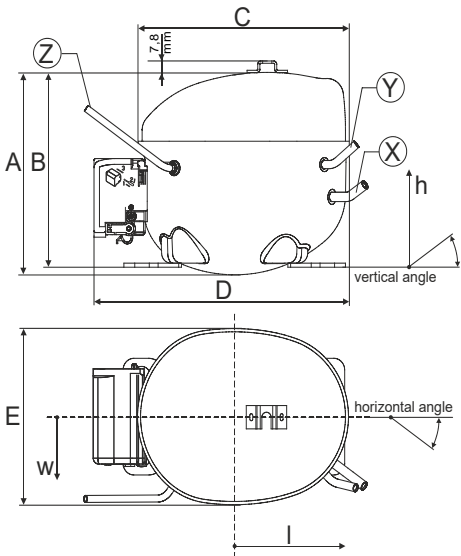
	Conf. 1	Conf. 2
Starting device type	PTC	PTC
Run capacitor	-/-	3/4µF
Start capacitor	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))		
RLA (rated load amps / 1s/ U(N))	-/-A	-/-A
Cut in current (U(N))		

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Compressor dimensions

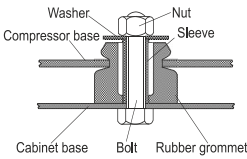
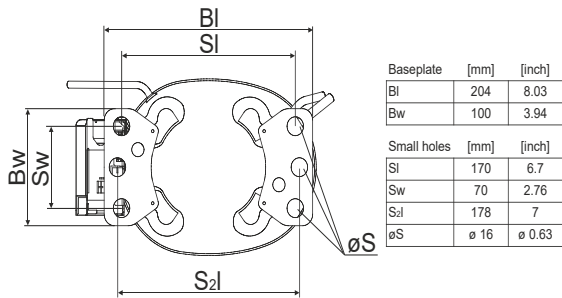
Housing	A Height	166mm / 6,54in
	B Height	159mm / 6,26in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6,1-6,2	øi 5,1-5,2	øo 5,92-6,08
(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øo 0,23-0,24
Material	copper	copper	copper
Horizontal angle	±2° 45°	13°	0°
Vertical angle	±2° 30°	40°	145°
Position l/h/w [mm]	120/72/62	112/106/62	-140/136/70
	[in] 4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm] 14	14	75
	[in] 0,5	0,5	3

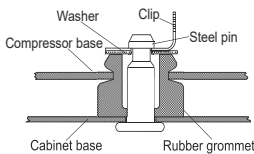


Compressor fixation

Bolt joint



Snap-on



Mounting accessories

'4ZN' with rubber grommet	772N
'4ZN' with rubber grommet and sleeve for M6	768N
Bolt joint kit	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	776N

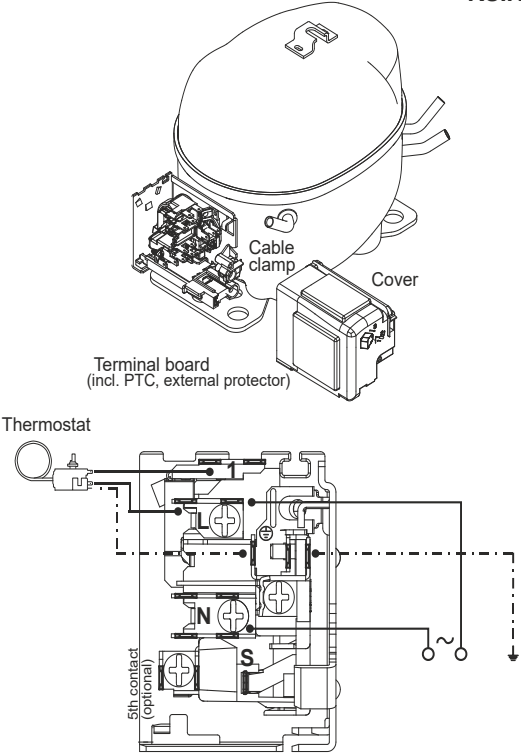
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Housing with dip-tray fixture (omega bracket).

Various options of connectors are possible - please contact SECOP-Sales.

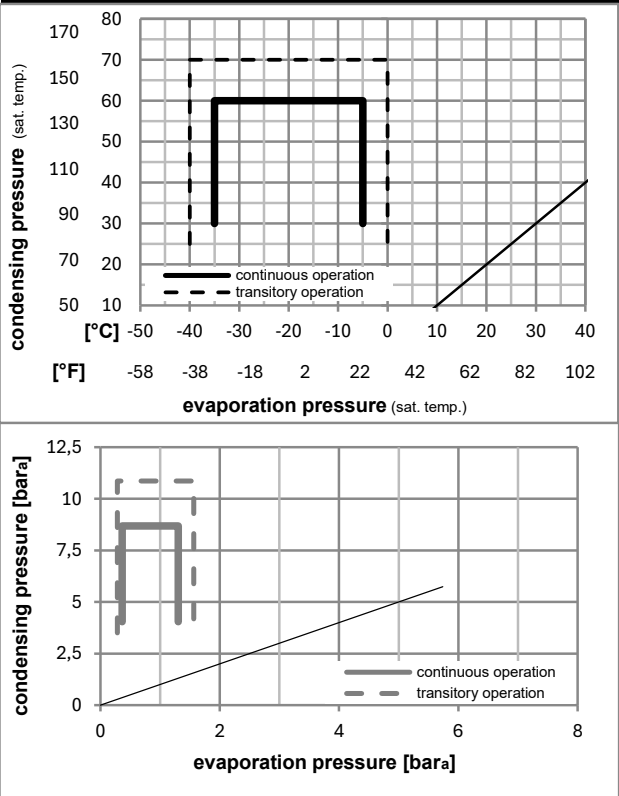
Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 1	Sales code: 16125300

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSIR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

Operation pressure range



Components			8858-6
.	terminal board (PTC, 4.8mm)	15163800	
b	cover terminal board	10636401	
.	cable clamp	11341000	
.	screw - uni6954	10636000	
.	screw - uni6954	10636200	
.	screw uni en iso 4757	10641201	
Alternative components			
.	terminal board (PTC, 6.3mm)	15162300	

Model

Designation	HTK70AA	220-240V/50Hz	Conf. 1	Sales code:	16125300
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Optimization + standard conditions

R600a, 220V/50Hz, RSIR, static, VDE

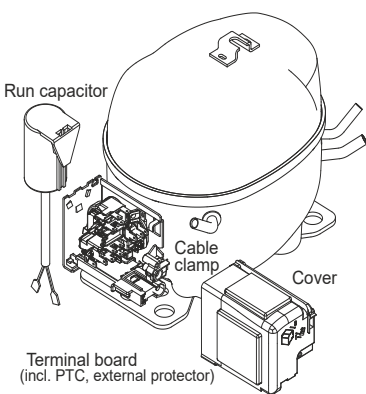
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Performance tables

R600a, 220V/50Hz, RSIR, static, VDE

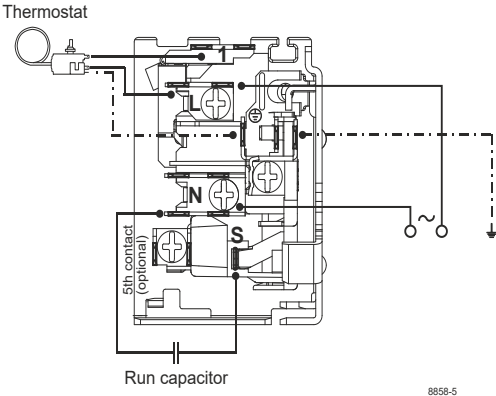
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	54,0	185	46,5	1,07	3,66	0,92	50,4	0,34	0,64
cond. pressure	-30	-22	72,8	249	62,7	1,25	4,26	1,07	58,4	0,37	0,87
pc= 45/113	-25	-13	98,6	337	84,8	1,49	5,10	1,29	66,0	0,40	1,17
return gas temp.	-23	-10	108,7	371	93,5	1,59	5,42	1,37	68,4	0,41	1,29
RGT= 32/90	-20	-4	129,9	444	111,8	1,78	6,07	1,53	73,1	0,43	1,55
liquid temp	-15	5	165,4	565	142,3	2,07	7,09	1,79	79,7	0,46	1,98
Tliq= 45/113	-5	23	243,2	831	209,3	2,66	9,10	2,29	91,3	0,52	2,92
[°C / °F]	-35	-31	43,6	149	37,6	0,89	3,03	0,76	49,2	0,33	0,57
cond. pressure	-30	-22	62,1	212	53,4	1,04	3,54	0,89	59,9	0,37	0,81
pc= 55/131	-25	-13	86,7	296	74,6	1,24	4,24	1,07	69,9	0,40	1,13
return gas temp	-23	-10	96,2	329	82,8	1,32	4,49	1,13	73,2	0,42	1,26
RGT= 32/90	-20	-4	116,1	397	99,9	1,47	5,00	1,26	79,2	0,44	1,52
liquid temp	-15	5	149,0	509	128,2	1,70	5,79	1,46	87,9	0,48	1,95
Tliq= 55/131	-5	23	219,1	748	188,6	2,13	7,29	1,84	102,7	0,57	2,88

Model				
Designation	HTK70AA	220-240V/50Hz	Conf. 2	Sales code: 16125300

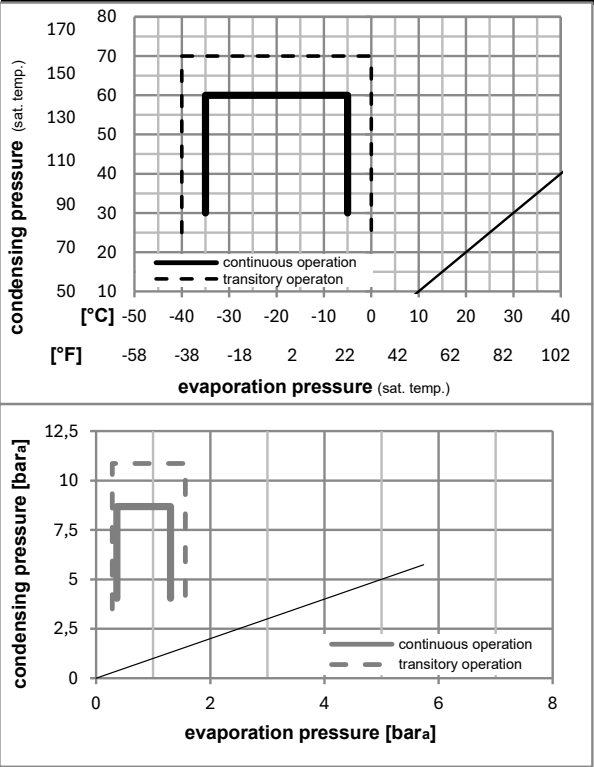
Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	RSCR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	187-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components		
. terminal board (PTC, 4.8mm)	15163800	
. run capacitor (3µF, 4.8mm)	10692902	
b cover terminal board	10636401	
. cable clamp	11341000	
. screw - uni6954	10636000	
. screw - uni6954	10636200	
Alternative components		
. terminal board (PTC, 6.3mm)	15162300	
. run capacitor (4µF, 6.3mm)	15186801	

Model													
Designation	HTK70AA			220-240V/50Hz			Conf. 2			Sales code:		16125300	

Optimization + standard conditions

R600a, 220V/50Hz, RSCR, static, VDE

Evaporating pressure (saturation temperature)													
Condensing pressure (saturation temperature)													
Return gas temp.													
Liquid temp.													
Cooling capacity													
COP													
EER													
Power consumption													
Current consumption													
Ref. mass flow													
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]										[W]	[A]	[kg/h]	
ASHRAE LBP	-23	54	32	32	116,7	399	100,5	1,66	5,68	1,43	70,2	0,31	1,25
	[°F]												
	-10	130	90	90									
cecomaf LBP	-25	55	32	55	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13
	[°F]												
	-13	131	90	131									
EN12900 LBP	-35	40	20	40	56,8	194	48,9	1,18	4,03	1,02	48,1	0,26	0,69
	[°F]												
	-31	104	68	104									
ARI540 LBP	-23	49	4,4	49	93,7	320	80,6	1,40	4,77	1,20	67,0	0,31	1,37
	[°F]												
	-10	120	40	120									
AHAM LBP	-23	41	32	32	121,7	416	104,7	1,90	6,50	1,64	63,9	0,30	1,31
	[°F]												
	-10	105	90	90									
opt	-35	45	32	45	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64
	[°F]												
	-31	113	90	113									

Performance tables

R600a, 220V/50Hz, RSCR, static, VDE

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	54,0	184	46,5	1,12	3,83	0,97	48,1	0,25	0,64
cond. pressure	-30	-22	72,7	248	62,6	1,30	4,45	1,12	55,8	0,27	0,86
pc= 45/113	-25	-13	98,5	336	84,7	1,56	5,31	1,34	63,3	0,30	1,17
return gas temp.	-23	-10	108,5	371	93,4	1,65	5,64	1,42	65,7	0,31	1,29
RGT= 32/90	-20	-4	129,7	443	111,7	1,84	6,30	1,59	70,4	0,32	1,55
liquid temp	-15	5	165,2	564	142,2	2,14	7,32	1,85	77,1	0,35	1,97
Tliq= 45/113	-5	23	242,9	830	209,1	2,73	9,31	2,35	89,1	0,40	2,92
[°C / °F]	-35	-31	43,6	149	37,5	0,91	3,12	0,79	47,7	0,25	0,57
cond. pressure	-30	-22	62,0	212	53,4	1,07	3,66	0,92	57,8	0,28	0,81
pc= 55/131	-25	-13	86,6	296	74,5	1,28	4,38	1,10	67,5	0,30	1,13
return gas temp	-23	-10	96,1	328	82,7	1,36	4,64	1,17	70,7	0,31	1,25
RGT= 32/90	-20	-4	116,0	396	99,8	1,51	5,17	1,30	76,7	0,33	1,52
liquid temp	-15	5	148,8	508	128,0	1,74	5,96	1,50	85,3	0,37	1,95
Tliq= 55/131	-5	23	218,9	747	188,3	2,17	7,43	1,87	100,6	0,43	2,88